

## **Abstract**

The invention relates to a preparation method of exo-pressure type poly(vinylidene fluoride) hollow fiber membrane spun utilizing an immersion-coagulation method and the product thereof. The invention is performed mainly through the following steps: dissolving and stirring at a certain temperature to obtain a membrane forming solution; by means of a double-tube orifice, spinning the membrane forming solution together with a composite supporting solution which is in the inner tube of the orifice; after a rapid evaporation, performing the two-stage phase-separating coagulations; after a patch, hydrophilizing the resulted phase inversion membrane; thus, obtaining integrally and continuously the exo-pressure type hollow fiber membrane having double barrier layers and a completely spongy supporting layer. Therefore, the invention is provided with a lot of characteristics, such as the formulation of the membrane forming solution being reasonable, the evaporation and immersion spinning method, the two-stage phase-separation coagulations, and the hydrophilization treatment, as well as the technique for forming membrane integrally and continuously being simple and easy without high restricts to device, the technique process being controlled easily, etc. And the membrane is provided with high compression strength and large water permeation flux, and its property is deteriorated very slowly, and cut-off deposits are difficult to formed on the membrane surface.